

Abstract Of The Disclosure

A device for the ignition of an air-fuel mixture in an internal combustion engine using a high-frequency electrical energy source. A coaxial waveguide structure forming a resonator chamber, into which the high-frequency electrical energy is able to be fed in a predefined coupling-in location at one end of an inner conductor of the waveguide structure. The coupling-in location is designed so that the inner conductor in the region of the coupling-in location is laterally opened out fanwise, and, in this context, a predefined length is continued coaxially between the outer wall and the coaxial waveguide structure and a feed line. Consequently, a feed line may be coupled on coaxially, using which the supply of the electrical energy takes place through a coaxial insulation in the outer wall of the waveguide structure into the resonator chamber.